PM

Zoller & Danneberg / Max-161 SW/4-SW/4 Sec 7-4IN-31E 256 Apache. County

3.56

ARIZONA APACHE CO.

ELEV: 5016 KB.

6

TOPS: Log-S**mark**ex

ROCKY MOUNTAIN

Twp 4ln-3le Section 7 sw sw 660 n/s 660 e/w 1 Navajo-161

WELL#:

DSTS. & CORES:

COMPL: 11-13-63 SPUD: 10-24-63

DSTS. & CORES:

No cores. DST 5310-5431.,
SI 1 hr. open 45 mins.,
SI 1 hr. rec 30 mud,
FP 74-118#, SIP 326355#, HP 2936-2921#.
DST 5460-5517, SI 1
hr. open 2½ inc., SI 1
hr. gas in 1 hr. rec
5000 HGC salt wtr.
FP 548-2313#, SIP
2328-2328#, HP 29512951#. DST 5540-82,
SI 1 hr. open 2 hrs.
SI 1 hr. rec 15 mud, 85
sli GCM, FP 59-118#,
SIP 2465-2328#, HP
2997-2982#.
Cont: Arapahoe 13-3/8" @ 130 8-5/8" @ 1736 w/100

D & A

Contr: Arapahoe

ARIZONA 2-366211

WILDCAT (W)

OPR: Zoller & Danneberg

Hermosa 4610 Ismay sh 5355 Ismay Carbonates 5390 Paradox 5515 Desert Creek 5542 Akah 5640

s1

COUNTY Apache	A	REA Four Corners	LEASE NO.	Nav. Tract #161
WELL NAME Zoller & D	anneberg	1 Navajo-161		
LOCATION <u>SW SW</u> *4984 GR 4995 DF ELEV <u>5004</u> GR <u>5016</u>	SEC 7	TWP 41N RANGE DATE 10-24-63	31E FOOTAGE 66 STATUS COMP. DATE 11-1	TOTAL DEPTH 5690
CONTRACTOR				
CASING SIZE DEPTH	CEMENT	LINER SIZE & DE	•	ROTARY X
<u>13 3/8</u> <u>173</u>	130 sx	<u>NA</u>		CABLE TOOL
<u>8-5/8</u> <u>1736</u>	_100_sx_			RESERVOIR Dry
		SOURCE	<u> </u>	
FORMATION TOPS	DEPTHS	L.L. E.L.	REMARKS	
Chinle	1720			
Shinarump	2338			
Moenkopi	2450			
DeChelly Organ Rock	2731 3065			
Cutler Evap	3670			
Hermosa	4610			
Ismay Shale	5455			
Ismay Carbonate	1			
Paradox Shale	5515			
Desert Creek	5542			
Akah	5640			
	l			CAMPLE LOG
ELECTRIC LOGS	PERF	ORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG SAMPLE DESCRP.
GR Sonic, IE		NS	NA NA	SAMPLE NO.
			1	CORE ANALYSIS
				DSTs
				APP. TO PLUG
REMARKS <u>Plugged o</u>	kay (Note:	Laughlin-Simmons	ele anomi spoke	PLUGGING REP. X
				
				COMP. REPORT X
WATER WELL ACCEPTED B	Υ			
BOND CO. Queen Ir	surance Co	mpany of America	ከልጥፑ	
BOND AMT. \$ 2,500	C.	ANCELLED 1963 &	1972 ORGANIZATION	N REPORT
FILING RECEIPT 9355	L	OC. PLAT x	WELL BOOKX	PLAT BOOK X
API NO.	D	ATE ISSUED 10-18	3-63 DEDICATION	PLAT BOOK X W/2 SW/4
PERMIT NUMBER 25				

(over)

DRILL STEM TEST RESULTS то FROM NO. Rec 30' drl mud 5431 5310 1 Rec 5000' gassy SW 5517 5460 2 Rec 100' fluid 5540 5582. __3__ CORE RECORD REMARKS RECOVERY TO FROM МО. REMEDIAL HISTORY NEW PERFORATIONS DATE STARTED - COMPLETED WORK PERFORMED ADDITIONAL INFORMATION

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rm 9–330 ev. 5–63)		UN ED					rm appro	au No. 42-R355.5
	DEDART		THE INT	FRIOR	(See othe	rin-		AND SERIAL NO
		EOLOGICA			reverse s	14-20-0	5	
<u> </u>				EDODT ANI	D 1 0 G *	fi IF INDIAN.	ALLOTTE	OR TRIBE NAM
			IPLETION RE	EPORT AIN	D LOG			
TYPE OF WELL	WELL WELL	GAS WELL	DRY Y O	ther	<u>:</u>	7. UNIT AGREE	EMENT NA	ME
TYPE OF COMPI		· T PLCG [T	DIFF. O			S. FARM OR L	EASE NAD	ue :
WELL .	OVER L EN	PLCG DACK	l pesva. 🗀 O	ther		Nava jo	£ 1.	
NAME OF OPERATOR						9. WELL NO.		
ADDRESS OF OPERA	er & Danne	berg	•			161-1	· · · · · · · · · · · · · · · · · · ·	
		- • • • •	Denver Cal	penda		10. FIELD AN) FOOL, 0	R WILDCAT
			Cordance with and		ta)*	Hildca	. M. OR I	BLOCK AND SURFE
	· ·		Sec. 7 TA	IN-R31H	106-000	OR AREA		
At top prod. inte	rval reported bel	0 W	Apach	₩	111ZUIIA.	Sec. 7-	1.47N-1	(31E
At total depth			1 - 크 글 등 변 1 - 크 글 글 트 트		: :			<u></u>
:		· · · · · · · · · · · · · · · · · · ·	14. PERMIT NO.	DATE	ISSUED	12. COUNTY C	DR .	13. STATE
			COUNT (Bardy 40	nrad) -o=	numara tan	REB, RT. GS, ETC.)	19. ELE	A FARONAD
DATE SPUDDED		1	COMPL. (Ready to	<i>:</i>		E + 15 €	i à	
10-24-63 TOTAL DEPTH, MD 4	11-12-63 TVD 21. PLU	BACK T.D., MD &	TYD 22. IF MULT		-Cl.: 5014	ALS SOLO VIDO	LS	CABLE TOOLS
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5690 (Sch)	VAL(S), OF THIS	COMPLETION-TOP	, BOTTOM, NAME (M	D AND TVD)*				MAS DIRECTIONA
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			*** *** * * ;					WELL CORED
- 1 12 L 14 L	<u> </u>		<u></u>					
47.3	18 - 18 - 18 - 18 - 18 - 18 - 18 - 18 -	·			- 1			
GannaRay-B	18 - 18 - 18 - 18 - 18 - 18 - 18 - 18 -	Caliber, a	nd RS=Induct	ion off all strings set	in well)		No.	
GannaRay-B S. CASINO SIZE	18 - 18 - 18 - 18 - 18 - 18 - 18 - 18 -	Caliper, an	ING RECORD (Kep	tion ort all strings set LE SIZE	in well)	NTING RECORD	- Ho.	AMOUNT PULLE
GannaRay-8	onic with	Caliper, an	T (MD) HO	ort all strings set	in well) CEME			
GannaRay-8 S. CASINO SIZE 13 3/8"	weight, 18.	Caliper, as	ING RECOID (Rep	ort all strings set LE SIZE LE SIZE LE CRECLIA	СЕМЕ	ks		AMOUNT PULLEE
GannaRay-B S. CASING SIZE 13 3/8* R 5/8"	weight, LB.	Caliper as CAS	ING RECOID (Rep	ort all strings set LE SIZE	130 8ac	ks		AMOUNT PULLEE
GannaRay-B S. CASINO SIZE 13 3/8° 8 5/8"	weight, LB.	Caliper as CAS	ing recomb (kep	ort all strings set LE SIZE LE SIZE LE CRECLIA	130 8ac	ks		AMOUNT PULLEE
GannaRay-B S. CASINO SIZE 13 3/8" R 5/8"	onic with	Caliper as CAS	ing recomb (kep	ort all strings set LE SIZE LEFACE LEFACE	130 8ac	ike ike	ORD (c	AMOUNT PULLEE
GannaRay-B CASINO SIZE 13 3/8" 8 5/8"	weight, LB.	Caliber, as CAS	ING RECOID (Report (MD)) HO	ort all strings set LE SIZE LE CERCLES CONTRACTOR CONTR	130 8ac -100 8ac	ks ks	ORD (c	AMOUNT PUBLED None None
CASINO SIZE 13 3/8° 8 5/8"	weight, Lb. 484 324 TOP (MD)	Caliber at CAS	SACRS CEMENT	Der all strings set	130 8ac 100 8ac	TUBING REC	ORD (C	ANOUNT PULLER None None
CASINO SIZE 13 3/8** R 5/8** SIZE	WEIGHT, LB., 48# 32#, TOP (MD)	Caliber at CAS: FT. DEPTH SE 173 173 LINER RECORD EOTTOM (MD) ize and numben)	SING RECORD (Report (MD)) HO	Def all strings set LE SIZE LE FACE LE CREEN (MD) 8 CREEN (MD)	130 8ac 100 8ac 30. size	TUBING REC DEPTH SET () FRACTURE, CEMEN	ORD ST. SQUE	AMOUNT PULLER NONC NONC PACKER SET (M)
GannaRay-B CASINO SIZE 13 3/8** 8 5/8** 9.	weight, LB. 484 324 TOP (MD)	Caliber, as CAS TT. DEPTH SE 173 173 LINER RECORD BOTTON: (MD) - ize and numben)	SACKS CEMENT	LE SIZE LE	130 8ac 100 8ac 30. 312E	TUBING REC	ORD ST. SQUE	AMOUNT PULLEE None None PACKER SET (MI
GammaRay-B S. CASINO SIZE 13 3/8" 8 5/8" 9. SIZE	weight, LB. 484 324 TOP (MD)	Caliber at CAS TT. DEPTH SE 173 173 LINER RECORD BOTTON: (MD) ize and numben)	SING RECORD (Report (MD)) HO	LE SIZE LE	130 8ac 100 8ac 30. 312E	TUBING REC DEPTH SET () FRACTURE, CEMEN AMOUNT AND RI	ORD ST. SQUE	AMOUNT PULLEE None None PACKER SET (MI
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GannaRay-B 3. CASINO SIZE 13 3/8* 8 5/8** 9. SIZE	weight, be. 48# 32# TOF (MD)	Caliber at CAS: Tr. DEPTH SE 173 173 LINER RECORD Sorros: (MD) see and number)	SACKS CEMENT	LE SIZE LE	30. SIZE	TUBING REC DEPTH SET () FRACTURE, CEMEN AMOUST AND RI	ORD	AMOUNT PUBLES None None PACKER SET (MI FEZE, ETC. ATERIAL USED
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Garina Ray - B S. CASINO SIZE 13 3/8" R 5/8" 9. SIZE 31. PERFORAXION RE	weight, be. 48# 32# TOF (MD)	Caliber at CAS: FT. DEPTH SE 173 173 LINER RECORE BOTTON: (MD)	SACKS CEMENT	BCREEN (MD)	30. SIZE ACID, SHOT.	TUBING REC DEPTH SET () FRACTURE, CEMEN	ORD	AMOUNT PUBLICE NOTE NOTE NOTE PACKER SET (MI EZE, BTC. ATERIAL USED
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GammaRay—B 3. CASINO SIZE 13 3/8** 8 5/8** 9. SIZE 11. PERFORATION RE DATE FIRST PRODUC	weight, be. 48# 32# TOF (MD)	Caliber as CAS	PRO (Flowing, gas lift, 1)	begren (MD) Begren (MD) Debrit inter	130 8ac 100 8ac 30. S12E ACID, SHOT.	TUBING REC DEPTH SET () FRACTURE, CEMEN AMOUST AND RI	ORD MD) TT SQUE ND OF MA	AMOUNT PUBLES None None PACKER SET (MI FEZE, ETC. ATERIAL USED
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Gamma Ray - S S. CASINO SIZE 13 3/8* 8 5/8** 9. SIZE 33.* DATE FIRST PRODUCT DATE OF TEST PLOW. TUBING PRESS.	TOP (MD) TOP (MD) TOP (MD) CORD (Interval, 8 HOURS TESTER CASING PRESS GAS (Sold, used)	Caliber as CAS CAS TT. DEPTH SE 173 173 LINER RECORD BOTTON (MD) CHOKE SIEM CHOKE	PROD'N. FOR TEST PERIOD PROD'N. FOR TEST PERIOD OIL—BBL.	BCREEN (MD) 32; DETH INTER OIL—UBL.	130 8ac 100 8ac 100 8ac 30. SIZE ACII), SHOT. AL (MD) GAS—MC	TUBING REC DEPTH SET () FRACTURE, CEMEN AMOUNT AND RI F. WATER—BBL. TEST WITN	ORD ID) IT SQUE IND OF MA	AMOUNT PULLER NOME NOME PACKER SET (MI EZE, ETC. ATERIAL USED (Producing or (AS-OIL RATIO
GRAINS SIZE S. CASING SIZE 13 3/8* 8 5/8** 19. SIZE 31. PERFORMATION RE DATE FIRST PRODUCT DATE OF TEST FLOW. TUBING PRESS. 34. DISPOSITION OF	TOP (MD) TOP (MD) TOP (MD) CORD (Interval, 8 HOURS TESTER CASING PRESS GAS (Sold, used)	Caliber as CAS CAS TT. DEPTH SE 173 173 LINER RECORD BOTTON (MD) Ize and number) CHOKE SIEN CHOKE SIEN Or fuel, vented, cic	PROD'N. FOR TEST PROD'N	BCREN (MD) BCREN (MD) BCREN (MD) DEFTH INTER OIL—RBL. GAS—MC	130 sac 100 sac 100 sac 30. SIZE ACID, SHOT. AL (MD)	TUBING REC DEPTH SET () FRACTURE, CEMEN AMOUNT AND RI F. WATER—BIL TEST WIN	ORD IT SQUE IT SQUE IND OF MA	AMOUNT PULLER NOME NOME PACKER SET (MI EZE, ETC. ATERIAL USED (Producing or (AS-OIL RATIO
GRAINS SIZE S. CASING SIZE 13 3/8* 8 5/8** 19. SIZE 31. PERFORMATION RE DATE FIRST PRODUCT DATE OF TEST FLOW. TUBING PRESS. 34. DISPOSITION OF	TOP (MD) TOP (MD) TOP (MD) CORD (Interval, 8 HOURS TESTER CASING PRESS GAS (Sold, used)	Caliber as CAS CAS TT. DEPTH SE 173 173 LINER RECORD BOTTON (MD) Ize and number) CHOKE SIEN CHOKE SIEN Or fuel, vented, cic	PROD'N. FOR TEST PROD'N	BCREN (MD) BCREN (MD) BCREN (MD) DEFTH INTER OIL—RBL. GAS—MC	130 sac 100 sac 100 sac 30. SIZE ACID, SHOT. AL (MD)	TUBING REC DEPTH SET () FRACTURE, CEMEN AMOUNT AND RI F. WATER—BBL. TEST WITN	ORD ID) IT SQUE IND OF MA IS SEED BY FECORDS	AMOUNT PULLER NOME NOME PACKER SET (MI EZE, ETC. ATERIAL USED (Producing or (AS-OIL RATIO

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INSTRUCTIONS

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General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal anglor State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local federal and/or State office. See instructions on ideas 22 and 34, and 38, below regarding separate reports for sequence these. See instructions on teams 22 and 34, and 38, below regarding separate reports for sequence these. See instructions on ideas 22 and directions arrevers, should be attached hereto; to the extent required by applicable Foderal and/or State laws and regulations. All attachments aloud pressure tests, and directions arrevers, should be attached hereto; to the extent required by applicable Foderal and/or State laws and regulations. All attachments are no applicable State requirements, locations on Federal office for specific instructions.

Ifem 4: If, there are no applicable State requirements, locations on Federal office of ministry in the regular production from nor the production from the regular produced and are should be interval. Specific instructions is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form, and name [8] (If any) for only the interval reported in item 38. Submit a separate report (page) to this form for each interval to be separately produced, showing the adultional interval. See instruction for items 22 and 24 above.)

Ifem 33: Submit a separate completion report on this form for each interval. (See instruction for items 22 and 24 above.)

Second S	SHOW ALL IMPORTANT	SHOW ALL IMPOURANT ZONES OF POROSITY AND CONTENTS LINES AND SHOWN FLOWING	DORITY AND CONTEN	PEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			
may 5400 5403 Lm,brn,med xyln,calc,fir-good colc por,fair cut, DST #1 Nov.7,1963 \$100-5431 Shut in 1 hr.for initial \$110-5431 Shut in 1 hr.for initial \$110-5431 Shut in 1 hr.for initial ### For final BHF, tool open 45 ### Portion open 28 #### Portion open 28 ### Portion open 28 #### Portion open 28 ##### Portion open 28 ##### Portion open 28 ##### Portion open 28 #### Portion open 28 ####	3	THE TOTAL	HOTTON	DESCRIPTION, CONTRINTS,	NAMB		BLAZE CARA METER
Creek 5568 5576 Im.brn.med xyln.calc.fir-good colc chinle 233 por.fair cut. DST #1 Nov.7.1963 Shinarump 2338 28	NOT IN THE STATE OF						TRUE YEAR CANAL
Creek 5568 5576 Imagen of the first of the formulation of the first of	Tsmay	2400	5403	en, med xyln, calc, fir-good	0,04m] e	N	618
2510-2431 SHU-1913 SHU-191 Moenkopi 2510-2431 SHU-1913 SHU-191 Moenkopi 2731 SHU-1914 SHU-1915 SHU-1914 SHU-1915 SHU-1914 SHU-191				Fair cut. Low #1 Nov-/#1707	Shinarumo	, to	112
Creek 5568 5576 Imital BHP. Tool open 2234 Akah Creek 5568 5576 Imital and 1 hr. for final BHP. Tool open 2340 5495 Imital and 1 hr. for final BHP. Tool open 234	in in the second			STORY TO THE THE TOTAL TOTAL TENESTREES	Moenkont	Š	281
## 184, ISIP 3264 FSIP 3554, If the content of con			:	Br. For Inda Dur. 500 - Oct.	T C C C C C	١. (٢	334
5493 5495 FF 118#, ISIP 326# FSIP 355#, in Organ rx 2936# FF 1292# 5493 5495 Lm,gry-tan,fn xyln,slt foss, pp=vug Ismay Shale 5355 12 por. sptd stn. DST#2 Nov.8,1963 Ismay Carb. 5390 Paradox SH. 5505 5606-5517 Shut in 1 hr.for initial Prol open 24 paradox SH. 5515 Sw. IF548# FF 2313, ISIP 2328# FSIF Shut in 1 hr. for initial BHP. Tori open 24 por. sptd. stn. DST#3 Nov. 111,1963 5540-82 Shut in 1 hr. for final BHP. Tori open 2 hrs. Rec.100 feet fluid. Initial and 1 hr. for final BHP. Tori open 2 hrs. Rec.100 feet fluid. Initial and 1 hr. for final BHP. Tori open 2 hrs. Rec.100 feet fluid. Initial and 1 hr. for final BHP. Tori open 2 hrs. Rec.100 feet fluid. Initial and 1 hr. for final BHP. Tori open 2 hrs. Rec.100 feet fluid. Initial and I FS94# FF 118#, ISIP 2465# FSIP 2465# FSIP 2465# FSIP 2465# FSIP 2465# FSIP 2328# FSI				. Rec. 30 feet drig mud. Ir	COLLEGE	W	עע
2936# FH 2921# 29495 5495 5495 5501 5505 Dor. sptd stn. DST#2 Nov.8,1963 Em. Ery-tan, fn xyln, slt foss, pp=vue lengy Shale 5395 5501 5505 Dor. sptd stn. DST#2 Nov.8,1963 Em. Ery-tan, fn xyln, slt for laltial sandy Shale 5395 Sylventry Shale 1			· ·	118# ISIP 326# FSIP 355#,	H	3 C	
5493 5495 [m.gry-tan,fn xyln,slt foss, pp=vug Ismay Shale 5355 505 505 505 505 505 505 505 505 50	***		*	36年 平田 2921	Cutler eval	\	7.1
Creek 5568 5576 Im.gry-tan,fn xyln,sit foss, pp=vug Ismay Shäle 5355 12 5460-5517 Shut in in-for initial Paradox SH 5515 2		1	1		Неглова		÷.
5501 5505 Lm.gry-can, II X, Lm., E. 1963 Ismay Carb, 5390 12 5460-5517 Shut in lar. for initial Paradox SH, 5515 8 1 hr. for final BHP. Tool open 24% Desertoreek 5540 Hrs. Gro. final BHP. Tool open 24% Desertoreek 5640 SW. IF548# FF 2313, ISIP 2328# FSIH 2328#, IH 2951# FH 2951# FH 2951# 2328#, IH 2951# FH 2951# FH 2951# 11,1963 5540-82 Shut in lhr. for linal BHP. 11,1963 5540-82 Shut in lhr. for final BHP.		ちながり	しながり	THE STATE OF THE PARTY OF THE P	Tamp	3	35
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Creek 5568 5576 Intital BHP. Tool open 248 5542 9 Creek 5568 5576 Lm; ten buff, fn xyln, highy foss, oold inter foss por stn. DST#3 Nov. 11,1963 5540-82 Shut in hr. for final BHP. Tool open 2 hrs. Rec. 100 feet fluid drig mud. IF 59# FF 118#, ISIP 2465# FSIP 2328#.		`		sold stn. DSI#Z NOV.09-17	A SITIST	١.	10
Creek 5568 5576 Laster for final BHP. Tool open 232 DesertCreek 5540 Sw. IR548# FF 2313, ISIP 2328# FSIP 2328#, IH 2951# FH 2951#. Creek 5568 5576 Lasten-buff, fn xyln, highy foss, cold inter foss por stor. DST#3 Nov. 11,1963 5540-82 Shut in in hr. for fluid. Tool open 2 hrs. Rec. 100 feet fluid. Tool open 2 hrs. Rec. 100 feet fluid. (15 feet drig mud, 85 feet sgc grey drig mud, 1F 59# FF 118#, ISIP 2465# FF 2328# FF			-	servent in I hr for initial	Paradox	┥.	2
Creek 5568 5576 Lm; tan 1 hr. tor final Dar. 102 328# FF 2313; ISIP 2328# FF 2313; ISIP 2465# FF 2328# FF 2313; ISIP 2465# FF 2328# FF 2328#; Inter for sport stn. bSIF; Inter for final BHP. Tool open 2 hrs. Rec. 100 feet fluid. Tool open 2 hrs. Rec. 100 feet fluid. Tool open 2 hrs. Rec. 108 Erey (15 feet drig mud. 1F 59# FF 118#, ISIP 2465# FSIF 2328#. III 2997# FF 118# FSIF 2465#		-		0 1910 LOOP BEEN SALE STOCK	Doggatt	₹	28
Creek 5568 5576 Lm; tan-buff, fn xyln; hfgly foss, oold inter foss por stn. DST#3 Nov. 11,1963 5540-82 Shut in lhr. for final BHP. 1001 open 2 hrs. Rec.100 feet fluid drig mud. IF 59# FF 118#; ISIP 2465# FF 2992.		,	2	hy. For linal part tool offer		=	
Creek 5568 5576 Lm; tan-buff, fn xyln; higly foss inter foss por poor stn. DST# 11,1963 5540-82 Shut in hr. Initial and 1 hr. for final BH fool open 2 hrs. Rec.100 feet for drig mud, 85 feet sgc (15 feet drig mud, 85 feet sgc drig mud, 85 fee		. :		GTS 1 hr. REC. 5000 feet	エスの	•	
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(33) 7-41N-31E Jan. 17,44WILDCAT, 1½ mi N/El Paso's gas well in Sec. 11; proposed 5600'

SWSW of section Desert Creek test; C/Arapahoe Drlg Co; elev 5012'GL; spud

Zoeller-Danneberg 10-24-63; TD 5580'; DST #1, 5310-5431' in Ismay, rec 30' mud;

Navajo 161-1 Apacho Co. #6/flwd in hr on DST #2, 5460-5517' in lower Ismay, brnd with

2' flare; rec 5000' highly GCSW; D&A. FINAL REPORT

C

	•		Budget Bureau No. 42-R359.4.
n. 9-831 b pril 1952)	(COURT OF THE COURT OF THE COUR	IN TRIPLICATE)	Approval expires 12-31-00. Indian Agency
·,	-		
	-	ED STATES	
	DEPARTMENT	Allettee	
	GEOLO	GICAL SURVEY	Lazza No. 14-20-003-400
SUND	RY NOTICES A	ND REPORTS O	N WELLS
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OTICE OF INTENTION TO CH	LANGE PLANS	SUBSEQUENT REPORT OF SHOO	l h
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NOTICE OF INTENTION TO PL NOTICE OF INTENTION TO A		¥	
TOTICE OF INTENTION TO A			
	(INDICATE ABOVE BY CHECK MARK	NATURE OF REPORT, NOTICE, OR OTH	ER DATA)
ZMLER & Dell No. 161-1	is located 660 ft. fr	om S line and 660 ft. R31E Gila & Sail (Range) (Meridia	from W line of sec.
-	Apache		Agigona
(Field)	(Count	y or Subdivision)	(State or Territory)
		AILS OF WORK	casings; indicate mudding jobs, came
Verbal ins rig radio	etructions were rec November 12, 1963 Plug	eived from the USUS, : 5350-5690(TD) (340	
Demert Cr	eek, and top of Aka	2700-2800 (100°) S	but off DeChelly.
		Marker to be welde	
Navajo wa	ter so it can be us	ed at a later date if	needed.
		•	
I understand that this pi	ian of work must receive approve	I in writing by the Geological Survey	hefore operations may be commenced
	•	į	
Company Zolier	a Panneberg		<u></u>
A.J. 219 Pat	terson Building		
Address		 .	•
en ve r,	Colorado	By	
·		2	an Kirby
		Title Ase	nt.

orm 9-331 b	Budget Bureau No. 42 Approval expires 12-31
(April 1952)	(SUBMIT IN TRIPLICATE) Indian Agency
	UNITED STATES
	DEPARTMENT OF THE INTERIOR Alletter
	GEOLOGICAL SURVEY
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(IND)	DIGATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)
	Powerles -21,,
2011 FR S DANS	VEDERG, NAVAJO VININ
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the the Sac 7	Tein Bile Gila L Gall River
Ch Sec, and Sec, No.)	Tein 1312 Gila L Call Niver (Twp.) (Eange) (Meridian)
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≥i 1dcst (Field)	Apache Arigona (State of Territory)
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₩i 1dcst (Field) The elevation of the den	Apache (County or Subdivision) rick floor above sea level is 5014 ft. DETAILS OF WORK
≥i 1dcat (Field) The elevation of the den	Apache (County or Subdivision) rick floor above sea level is 5014 ft.
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	DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY	
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(4 860, and 860, 100, 7 T41, (4 wp.) R31, 7	huge) Gila R (Mil	_{haj} liver
Wildcat Apache (Field) (County or So	nbd(vision)	Eizona (State or Territory)
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	OF WORK	•
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DST #1. Nov.7,1963, 5310-5431 (8		
1F 74#-FF 118#, ISIP 326#-PSIP	Tool open 45 mi	y). Shut in 1 hour for n. Rec. 30' drilling i

DST #3. Nov.11,1963. 5540-82 (Desert Creek). Shut in 1 hour for initial and 1 hour for final BHP. Tool open 2 hours. Rec. 100° fluid (15° drlg mid. 85° SGC greyish drlg mud, slight sulphur odor). IP 59#-FF 118#. ISIP 2465#-FSIP 2328#. III 2997#-PH 2982#.

TitleAgent.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

U. S. GOVERNMENT PRINTING OFFICE 15-8487b-8

(SUBMIT IN TRIPLICATE)

Budget Bureau No. 42-R359.4. Approval expires 12-31-60.

256

Company ZOLLER 5 DANNEBERG

Address 219 Patterson Building

Denver, Colorado

į	Form 9-331 b (April 1952)					
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(SUBMIT IN	TRIPLICATE)
UNITED	STATES

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

	Form approved. Budget Bureau No. 42-R359.4.
Indi	an Agency
	Navajo
Allo	t tos
Loai	ь No. 14-20-609-400

K. I. DANNEBERG

Title_

16-84376-9

SUNDRY NOTICES AND REPORTS ON WELLS

(INDICATI	ABOVE BY CHECK MARK NATURE OF REPORT, N	OTICE, OR OTHER DATA)	
	Qetol	or 9.	<u>, 19.63</u>
Navajo Well No. <u>161-1</u> is loc	ated 660 ft. from S line and		
8V85 05 7 (5 88c, and 8ec. No.)	41 North-31 Eage (Range)	CASEM (Meridian)	
(% SEc. and Sec. No.)	APACHE COUNTY	ARIZONA	
(Field)	(County or Subdivision)	(State or Territory)	
The elevation of the derrick	floor above sea level is 3013 ft	, ,	
	DETAILS OF WORK		
(State names of and expected depths to	o objective sands; show sizes, weights, and lengthing points, and all other important prop	hs of proposed casings; indicate mudd osed work)	ing jobs, coment
Run 150' of 13-3/	8" casing, comented wi		
If excessive wate 1200', 8-3/8" cas	r flow is encountered ing will be run and co	in the Navajo, examinated.	pected at
Drill a 7-7/8" by of the Pennsylvan	ole to adequately test ilos at 5350'; oil-bas	the Desert Creek . s mud will be used	formation
Deill-scom test	all chose of oil or ga	9.	
Bleetric loss ru 1-1/2" caging 1E	a to total dopth. Plu Comported production of murt receive approved in writing by the Goo	g and absadon if d is encountered.	be commensed.

00202

Denver, Colorado

Company

Address_

ZOLLER AND DANNESKRO

219 Patterson Bullding

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·)
APPLICATION	FOR PERMIT TO DR	ILL, DEEPEN OR PL	UG BACK
APPLICA	TION TO DRILL 🌠 DE	EPEN [] PLUG BAC	ck 🗅
NAME OF COMPANY OR OPERATOR		r	DATE
ZOLLER AND DANNEBERG			October 9, 1963
Address 219 Patterson Buil	ding , Denver,		Colorado
	DESCRIPTION OF WE	LL AND LEASE	
Name of lease	i i	ell number 161-1	Elevation (ground) 5004
Navajo Tract 161 - 14-2 Well location (give f		Section—towns	hip-range or block & survey
660 from the South lir	ie, 660' from t	<u>ne West line :</u> _{Dunty}	- Sec. /-41N-31E
Wildcat		Apache County	
Distance, in miles, and direction from nearest 12½ miles from Red Mes	sa Injection St	ation	
Nearest distance from proposed location to property or lease line:		istance from proposed loc ompleted or applied—for w	ation to nearest drilling, reli on the same lease:
660	feet		Zero feet
Proposed depth:	Rotary or cable tools Rotary	1	x. date work will start ctober 15, 1963
Number of acres in lease:		lumber of wells on lease, i ompleted in or drilling to	actuding this well.
1920		Z	ero
If lease, purchased with one or more Nells drilled, from whom purchased:	ame	Addre	28
Remarks: (If this is an application to deepen producing zone and expected new	or plug back, orieny describe	WOLK CO DE GOLLE, STILLS	-:
·			
* Fill in Proposed Casing Program on other side			
CERTIFICATE: I, the undersigned, under the	penalty of perjury, state that	I am thepar	tner of the
Zeller and Dannehere	(asmnany) and	that I am authorized by s	aid company to make this report; and that this rect and complete to the best of my knowledge.
October 9, 1963		Signature	K. I Danneberg
Permit Number: 256 Approval Date: Oct 18, 190	63		OF ARIZONA OIL & GAS ERVATION COMMISSION
Approved By Language To Color has 6	or Vere Man	Applicat	ion to Drill, Deepen or Plug Back
Notice: Before sending in this form be s all information requested. Much ence will thus be avoided.		Form No. P-1	File two copies Effective Feb. 28, 1962.
See Instruction on Reverse Side of	FULID	1	

INSTRUCTIONS

READ CAREFULLY AND COMPLY FULLY

For the purpose of this determination attach hereto a neat, accurate plat, map or sketch of this lease, section, block or lot locating thereon the proposed site for this location. Plat shall be drawn to a scale which will permit the facile observation of all pertinent data. Show distances of the proposed well from the two nearest lease and section lines, and from the nearest wells on the same lease completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well, and the names and addresses of all adjoining lease or property owners.

In event plat is filed for the purpose of designating the drilling and producing unit, or proration unit, on which the proposed well is to be drilled, the boundaries of such unit shall be shown, also the boundaries of all other such units attributed to other wells on the same lease completed in or drilling to the same reservoir. The acreage contained within each unit shall also be shown.

Do not confuse survey lines with lease lines. The sketch or plat should show your entire lease if possible. If it is not practical to show the entire lease and the plat shows only a section, block or lot out of your lease, you should clearly show that same is only a part of the lease.

Designate scale to which plat or sketch is drawn. Also designate northerly direction on the sketch or plat.

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Тор	Bettom	Cementing Depths	Sacks Cement
13~3/8"	48#			163'	Circulating on top	160

Form No. P-1

R. 30 E. Section Scale: |"= 1000" **€** Hole Proposed Location 18

WELL LOCATION: Zoller & Danneberg - Navojo 161-1

Located 660 feet North of the South line and 660 feet East of the West line of Section 7, Gila & Sait River Meridian . Range 31 East, Township 41 North,

Apache Co., Arizona

Existing ground elevation determined at 5004 feet.

I hereby certify the above plot represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief.

> FREDERICK H. REED Registered Land Surveyor State of Arizona # 5315



ZOLLER & DANNEBERG Denver, Colorado

WELL LOCATION PLAT Sec. 7, T.41 N., R.31 E. Apache Co., Arizona

Durango , Colorado

E.M. CLARK & ASSOC.

Durango , Calorado

DATE: Oct. 7, 1963
FILE NO: 63059

256

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May 19, 1972

Royal-Globe Insurance Donald F. Harle Bond Department 201 Sansome Street San Francisco, California 94104

Re: Bond No. Q16-367930 SW/SW Section 7-T41N-R31E Apache County, Arizona Permit No. 256

Dear Mr. Harle:

Zoller & Danneberg have requested that the Oil and Gas Conservation Commission of the State of Arizona, release Bond No. Q16-367930.

Zoller & Danneberg have complied with all rules and regulations of the Oil and Gas Conservation Commission, therefore, the Commission does hereby authorize release of subject bond.

Very truly yours,

W. E. Allen, Director Enforcement Section

WEA/rlb

1cc - Zoller & Danneberg

Q

Royar-Globe Insufance

ROYAL INSURANCE COMPANY • LIVERPOOL & LONDON & GLOBE INSURANCE COMPANY • ROYAL INDEMNITY COMPANY • GLOBE INDEMNITY COMPANY • QUEEN INSURANCE COMPANY OF AMERICA LONDON AND LANCASHIRE INSURANCE COMPANY SAFEGUARD INSURANCE COMPANY • STANDARD MARINE INSURANCE COMPANY • THE MARINE INSURANCE COMPANY MEWARK INSURANCE COMPANY • AMERICAN AND FOREIGN INSURANCE COMPANY • BRITISH & FOREIGN MARINE INSURANCE COMPANY • THAMES & MERSEY MARINE INSURANCE COMPANY

201 SANSOME STREET

May 17, 1972

Mr. W. E. Allen, Director Oil & Gas Conservation Commission State of Arizona 4515 North 7th Avenue Phoenix, Ariz. 85013

Dear Sir:

Re: Bond No. Q16-367930 SW/4 SW/4 Section 7-T41N-R31E Apache County, Arizona Permit #256

Please be advised that the captioned bond is still in full force and effect. If said bond has been canceled, we would appreciate a letter releasing/from all liability thereunder in order that we may properly close our file.

Thank you for your attention to this matter.

Very truly yours,

Shald Flar Donald F. Harle

Supervisor Bond Department

DFH/mf

CC-2 Slerberg

MAY 1 0 1077 0 & G COT'S, C M. May 8, 1972

Mr. W. E. Hulsizer Zoller & Danneberg Exploration, L.T.D. 1600 Broadway Denver, Colorado 80202

Re: Bond No. Q16-367930 SW/4 SW/4 Section 7-T41N-R31E Apache County, Arizona PPermit #256

Gentlemen:

Our files indicate that the above referenced bond was cancelled in 1963. Please advise if abletter from this office to the Bond Company is necessary in order to effect the cancellation of this bond.

Very truly yours,

W. E. Allen, Director Enforcement Section

WEA/rlb

ZOLLER & DANNEBERG EXPLORATION, LTD.

May 4, 1972

Arizona Oil & Gas Conservation Commission 4515 North 7th Avenue Phoenix, Arizona 85013

> Re: Bond No. Q16-367930 SW\2SW\2 Section 7-T41N-R31E Apache County, Arizona

Gentlemen:

The subject drilling bond is held in the name of Henry E. Zoller, Jr. and Kenneth Danneberg, Partners, and covers the land described above. We hereby request cancellation of this bond.

By carbon copy of this letter we are advising the Queen Insurance Company of America of our action taken in this regard.

Sincerely,

W. E. Hulsizer

WEH:st

cc Queen Insurance Company of America

RECEIVED MAY U 8 1972

O & G CONS. COMM.

25/2

as principal, and QUEEN INSURANCE COMPANY OF AMERICA	(.	C:.	(ND	-11			
State of: Denver State of: Colorado Septincipal, and QUEEN INSURANCE COMPANY OF AMERICA MEW YORK AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona. As surety, are held and firmly bound unto the State of Arizona in the penal sum as indicated, lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of our heire, executors, administrators or successors, and assigns jointly and severally, firmly by these presents. The conditions of this obligation is that whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State, to wit: S/W SECTION 7 TOWNSHIP 141 NORTH RANGE 31E G&SRM APACHE COUNTY, ARIZONA NOW, THEREFORE, if the above bounden principal shall comply with all of the provisions of the laws of this State and the rules, regulations and orders of the Oil and Gas Conservation Commission, especially with reference to the requirements of A.R.S. 27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil & Gas Conservation Commission, almotices and records required by said Commission, in the event said well or wells on to produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, or cease to produce oil or gas in subscribed to the within instrument and known to me to be the person whose name is subscribed to the within instrument and known to me to		NUGLILI				і 1 no. <u>36793</u>	0
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State of: Colorado as principal, and QUEEN INSURANCE COMPANY OF AMERICA of New York AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona. as surety, are held and firmly bound unto the State of Arizona in the penal sum as indicated, lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents. The conditions of this obligation is that whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State, to wit: S/W S/W SECTION 7 TOWNSHIP 141 NORTH RANGE 31E G&SRM APACHE COUNTY, (May be used as blanket bond or for single well) NOW, THEREFORE, if the above bounden principal shall comply with all of the provisions of the laws of this State and the rules, regulations and orders of the Oil and Gas Conservation Commission, especially with reference to the requirements of A.R.S. 27-516, providing for the proper drilling, casing and plugging of said well or wells, and fling with the Oil & Gas Conservation Commission all notices and records required by said Commission, in the event said well or wells do not produce oil or gas in commercial quantities, or cases to produce oil or gas in commercial quantities, then this obligation is void; otherwise, the same shall be and remain in full force and effect. STATE OF CALIFORNIA, City and County of San Francisco On this 16th day of October in the year 1953, before me, L. P. MOREHOUSE aforement of the City and County of San Francisco and State aforexaid, personally appeared. ALFRED CAVALLIN known to me to be the person whose name is subscribed to the within instrument and known to me to be the person whose name is subscribed to the within instrument and known to me to be the person whose name is subscribed to the within instrument and known to me to be the person whose name is subscribed to the withi		4 Patterson Blog.	, Denver	in the			
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L. P. MOREHOUSE	City and Cour	nty of San Francisco					
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		be the Attorn	rey-in-Fact of			PANI OF AM	PILTOW

CF42089-SFá.

L. P. MOREHOUSE, NOTARY PUBLIC In and for the City and County of San
Francisco, State of California
My Commission Expires November 18, 1965

acknowledged to me that he subscribed the name of the said Company thereto as surety, and his own name as Attorney-in-Fact.

Notary Public in and for said City and County of San Francisco and State.

7		(ND		O
	JCEL,	43U 5-18-2	D. BOND SER	ial no. 367930
That Henry E	. Zoller, Jr.	& Kenneth Danneber	g, Partners db	a ZOLLER & DANNEBERG
of the		in th	A - 1	
County of :	Denver	State	JI	
as principal,	QUEEN INSURANC	CE COMPANY OF AMER	<u>rca</u>	
of NEV	I YORK UTHORIZED TO DO	O BUSINESS WITHIN the S	tate of Arizona.	_
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S/W S/W (May ARIZONA	SECTION 7 TOW be used as blanket	MSHIP 41 NORTH RAN bond or for single well)	IGE 31E G&SRM A	PACHE COUNTY,
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Penal sum of	TWENTY FI	VE HUNDRED AND NO/		- (\$2500.00)
Witness our l	nands and seals, thi	16th	day of <u>Oc</u> t	tober , 1963
		A Sa	F	rincipal
Witness our	hands and seals, th	is15th	day of Oct	ober, 1963
		QUEEN INSURANC	E COMPANY OF A	MERICA
		Molde	Estable	
the seal of th	ne corporation affix	ALFRED CAVALI a, the bond should be executed. When principal or su authority must accompan	rety executes this bo	orized officers, with
Approved	Date		STATE OF	
#956			OIL AND GAS CONS	ERVATION COMMISSION

October 22, 1963

Mr. K. I. Danneberg Zoller and Danneberg 219 Patterson Building Denver, Colorado

Re: Moller and Danneberg Navajo Tract 161
Well No. 161-1
Section 7-T41N-P31E, Apache County, Arizona

Dear Mr. Danneberg:

Herewith attached find permit for above well approved, and we wish you the best of luck.

I assume you are aware of the Devonian possibilities in the area in which you are drilling this project. Of course we hope you will go on down to it instead of stopping with one pay in the Pennsylvanian.

If you complete as a gas well, please designate your section unit in such a manner that your well location will be at least 1640 feet from the unit boundary. Your unit would of necessity have to go across section lines, but since you have the lease on it, you can do it. This will be in keeping with Arizona spacing regulations and is what we talked about on the telephone.

We appreciate your cooperation and assure you that we are glad you have decided to drill on a lease in Arizona and hope you are hugely successful in this and all of your other undertakings.

Yours truly,

John K. Petty Acting Executive Secretary

JEP:mkc

Encl.

956 Receipt mld 10/25/43 .)

H. E. ZOLLER, JR. K. I. DANNEBERG

[] waste

ZOLLER AND DANNEBERG

DENVER 2. COLORADO October 9, 1963

Oil and Gas Conservation Commission State of Arizona Room 202 - 1624 West Adams Phoenix 7, Arizona

Attention: Mr. John K. Petty

RE: Zoller and Danneberg - Navajo No. 161-1 SW SW Section 7-41N-31E, G&SRM Apache County, Arizona

Gentlemen:

In compliance with your letter of October 1, 1963, concerning the drilling of the above well, please find the following:

- Application for Permit to Drill in duplicate;
- Location Plat;
- 3. Organization Report;
- 4. Notice of Intention to Drill, sent to the U.S.G.S. at Farmington;
- 5. Check in the amount of \$25.00.

You will note the bond has been applied for, and will be forwarded to you as soon as completed.

I hope this meets with your approval; if not please advise.

Very truly yours, ZOLLER AND DANNEBERG

K. I. Danneberg

25%

KID:mob attachments - 6

TANK TANK

October 1, 1963

Zoller & Danneberg Patterson Building Denver, Colorado

10/4/63: Ken Danneberg

Zoller & Danneberg 222-1821, Denver

Zoller & Danneberg #1 Navajo #161-9

SW SW Section 7-T41N-R31E, Apache County, Arisona

Gentlemen:

Regarding your above project, we wish to acquaint you with Arizona rules and regulations regarding drilling and completion of oil, gas and helium wells within the state.

Enclosed find a copy of our Rules and Regulations along with an oil, gas and helium publication concerning our state. Also enclosed are permit forms, bond and organization forms, etc.

Please note in our Rules and Regulations, Page 6, Paragraph 102 "Application to Drill", and Page 5, Paragraph 101 "Bond". We expect you to comply with these requirements before your operation is begun.

Please send the permit forms (original and a copy), location plat, and an organization form filled out, accompanied by a \$25.00 check made out to the Oil and Gas Conservation Commission, State of Arizona. You can insert "Bond applied for" and then the bonding company can forward the bond to us if you like.

In regard to the well cuttings samples, a regular size cloth sample bag full of cuttings from 5 or 10 foot intervals plainly marked with appropriate core samples will satisfy our Commission requirements. If you will leave these samples at the Four Corners Sample Cut Association, 641 West Broadway, Farmington, New Mexico, they will cut and distribute them to meet our requirements.

If there are any questions, please contact this office.

We will appreciate a copy of each form (carbon or reproduction) you have sent to the United States Geological Survey at Farmington.

Hoping you will make a stupendous gusher out of this project and thanking you in advance for your earliest cooperation, I am,

Yours truly,

John K. Petty Acting Executive Secretary

256

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